

2818 \$  
**PATENT**

*Image*  
Docket No. 5000.113  
Confirmation No. 6091

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: David B. Slater, Jr.  
Serial No. 09/787,189  
Filed: March 15, 2001  
For: LOW TEMPERATURE FORMATION OF BACKSIDE  
OHMIC CONTACTS FOR VERTICAL DEVICES

Group Art Unit: 2818  
Examiner: David Vu

December 23, 2003

Commissioner for Patents  
Alexandria, VA 22313-1450

**REQUEST FOR CORRECTION OF INVENTORSHIP**

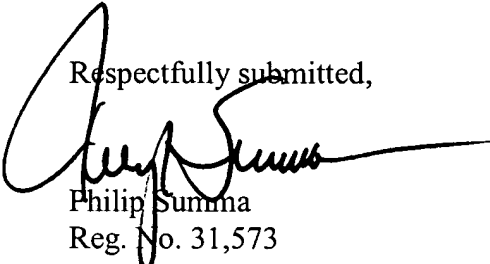
Sir:

This is a request under 35 U.S.C. § 116 and 37 C.F.R. § 1.48 (a)(1) to correct inventorship in a nonprovisional application after the oath or declaration has been filed.

The following items are enclosed:

- (i) a statement from Alexander Suvorov as the omitted inventor being added;  
37 C.F.R. § 1.48 (a)(2);
- (ii) an oath or declaration from inventors Slater and Suvorov ; 37 C.F.R. § 1.48 (a)(3);
- (iii) the 37 C.F.R. § 1.17(i) processing fee of \$130.00, 37 C.F.R. § 1.48 (a)(4); and
- (iv) the Assignee's statement under 37 C.F.R. § 3.73(b) and the written consent of the assignee, 37 C.F.R. § 1.48 (a)(5).

Respectfully submitted,

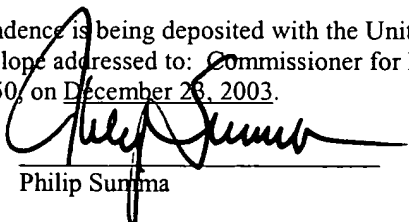
  
Philip Summa  
Reg. No. 31,573

021176  
Summa & Allan, P.A.  
11610 North Community House Road  
Suite 200, Ballantyne Corporate Park  
Charlotte, North Carolina 28277-2162  
Telephone: 704-945-6700  
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**CERTIFICATE OF MAILING**

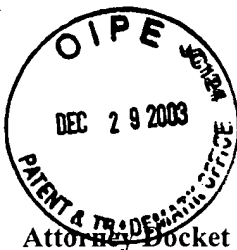
I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on December 23, 2003.

  
Philip Summa

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Statement of Dr. Alexander Suvorov

1. My name is Alexander Suvorov and I reside at 5 Windcourt Place, Durham, North Carolina 27713.

2. I am employed as a scientist at Cree, Inc. in Durham, North Carolina where my areas of concentration comprise doping techniques for silicon carbide, including implantation, diffusion and annealing, and the silicon carbide semiconductor devices that are designed and produced using such techniques.

3. I am a named co-author on a number of scientific publications.

4. I am a named inventor on at least four issued U.S. patents and several pending applications, and I am generally familiar with the patent process, including inventorship.

5. Named inventor David Slater is a co-worker of mine at Cree, Inc.

6. My omission from the originally-named inventorship in this application was an oversight and was made without deceptive intent on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

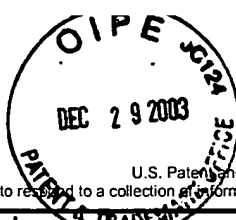
Alexander Suvorov

Alexander V. Suvorov

Date:

11/25/03

Please type a plus sign (+) inside this box →



PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration  
Submitted With Initial  
Filing

OR

☒ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number 5000.113

First Named Inventor David B. Slater, Jr. et al.

**COMPLETE IF KNOWN**

Application Number 09/787,189

Filing Date March 15, 2001

Group Art Unit 2818

Examiner Name David Vu

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Low Temperature Formation of Backside Ohmic Contacts for Vertical Devices**

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **03/15/2001** as United States Application Number or PCT International

Application Number **09/787,189** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →



PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		<input checked="" type="checkbox"/> Customer Number or Bar Code Label	021176	OR	<input type="checkbox"/> Correspondence address below
Name					
Address					
Address					
City			State	ZIP	
Country		Telephone		Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name David B.			Family Name Slater, Jr. or Surname		
Inventor's Signature <i>David B. Slater</i>				Date 11/11/03	
Residence: City Raleigh		State NC	Country USA	Citizenship USA	
Mailing Address 6424 Cape Charles Drive					
Mailing Address					
City Raleigh		State NC	ZIP 27617	Country USA	
NAME OF SECOND INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name Alexander			Family Name Suvorov or Surname		
Inventor's Signature <i>Alexander Suvorov</i>		Date 11/25/03			
Residence: City Durham		State NC	Country USA	Citizenship Russian	
Mailing Address 5 Windcourt Place					
Mailing Address					
City Durham		State NC	ZIP 27713	Country USA	
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: David B. Slater, Jr.Application No./Patent No.: 09/787,189 Filed/Issue Date: March 15, 2001Entitled: Low Temperature Formation of Backside Ohmic Contacts for Vertical DevicesCree, Inc., a North Carolina Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 011729, Frame 0074, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

December 19, 2003

Date

919-313-5300

Telephone number

Charles M. SwobodaTyped or printed name  
Charles M. Swoboda

Signature

President and CEO

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Group Art Unit: 2818  
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Commissioner for Patents  
Alexandria, VA 22313-1450

Request for Correction of Inventorship: Consent of Assignee

Sir:

This is part of a request under 35 U.S.C. § 116 and 37 C.F.R. § 1.48 (a)(1) to correct inventorship in a nonprovisional application after the oath or declaration has been filed.

The assignee, Cree, Inc., hereby consents to the correction of inventorship to add Alexander V. Suvorov as a named inventor.

Cree, Inc. is the owner of the entire interest of the patent by assignment and Cree's Statement under 37 C.F.R. § 3.73(b) is being filed concurrently herewith on Form PTO/SB/96.

The undersigned is authorized to act on behalf of assignee Cree, Inc.

Printed Name: Charles M. Suvorov  
Signature: Charles M. Suvorov  
Title: President and CEO  
Date: 12-19-03